Work Order ID 78409 *78409* Page 1 January-09-12 8:58:33 AM D350-636-017 Item ID: Accept *N900040100* Setup Start **Revision ID:** Skidtube w/ Training Wearplates, LH Item Name: *NS2* **Start Date:** 09/01/2012 Start Qty: 1.00 **Cust Item ID: Required Date:** 23/01/2012 Req'd Qty: 1.00 **Customer:** Reference: Run Start Approvals: Process Plan: M.C. 5 Date: 12 01 09 Tooling: Date: Stop Date: _____ SPC (Y/N): Date: Sequence ID/ Operation Tool ID Set Up/ Tool # Plan Reject Reject Insp. Accept Work Center ID Description Qty Qty Number Stamp **Run Hours** Code Draw Nbr **Revision Nbr** D4168 Α IIN-D350-636 I 100 0.00 DOCUMENT CONTROL *100* 0.00 Memo

Photocopy blue file and type labels per PPP D350-636-017 CHG 002

Document Control

or Cha 3 per ECN 12-542 -depends on D4154-041 Rev Bor C?

Dart Aeros	pace	Ltd
------------	------	-----

W/O: WORK ORDER CHANGES							
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
		·		i.			
				· ·			

Part No: _	· · · · · · · · · · · · · · · · · · ·	PAR #:	Fault Category:	NCR: Yes No	DQA:	Date:
i'	Resolution:		Disposition:	QA: N/C Closed	1 :	Date:

NCR:		WORK ORDER NON-CONFORMANCE (NCR)									
		Description of NC		Corrective Action Section B		Verification	Approval	Ammoural			
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	Approval QC Inspector			
	,										
					•÷	1					
-											
		·					·				
		•					فر				
				٠							
						,					
		· • • • • • • • • • • • • • • • • • • •									

January-09-12	8:58:33 AM			" / 8 ²	109"						,	Page
Item ID: Revision ID:	D350-636-0			Accept ,	*N900	0040	100	n *	Setup	Start Stop	*N	S1*
Item Name:	Skidtube w/ T	raining Wearplates, LH								этор	*N	S2*
Start Date:	09/61/2012	Start Qty: 1.00	*1*		Cust Item	ID:						
Required Date:	23/01/2012	Req'd Qty: 1.00	*1*		Customer:							
Reference:												
Approvals:	Process Pla	ın:	Date:	Tooling:	D	ate:		I		Start	*N	R1*
	QC :		Date:	SPC (Y/N):	D	ate:				Stop	*N	R2*
Sequence ID/ Work Center II)	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reje Qty		Reject Number	Insp. Stamp
110		Skidtubes		0.00				,	. 1		<i>a</i> .	1-6
110 Skidtubes		Memo		0.00					0	<	5G 12	p5 30
Skidtubes	7	1- Pick D260	0-3 Bent									
		2- Deburr FW AFT end per		ove bending marks. Scribe b	eatch# inside							
		3- Drill pilot deburr.	noles for blade fitting	bolt holes using DT8983. Op	pen to 0.500",							
·		4- Locate DT	3330 off of blade fittir	ng bolt holes and drill pilot h	oles for blade							
en e		5- Drill fwd s	tep holes using DT961	6. Ensure proper positioning	5.							
	:			50 sheet 4 (D2750-1 details). de only DT8863B for second								ŝ
		7- Clecko DT ***SECOND		of tube and drill pilot holes	for detail B.							•
		location holes	to 0.500" (total of 4 h	75" (4 holes per side)and bla oles per side) as per dwg D2 C to 0.500" (8 holes per sid	750 .Open up							
		9-Drill pilot h	oles for wearplates as	per Dwg D2750 using DT81	08 open to							

10-Open up holes of Detail A to 0.297" (total of 2 holes per side)

0.297".

Dart	Aeros	pace	Ltd
------	--------------	------	-----

	. Jopas.							•
W/O:			WORK ORDER (CHANGES				
DATE	STEP	Pf	ROCEDURE CHANGE	Ву	Date	Qty	Approval • Chief Eng / Prod Mgr	Approval QC Inspector
							<u> </u>	
								÷
Part No) :	PAR #:	Fault Category:	NCR: Ye	s No DC	A:	_ Date: _	
	ь	acclution:	Disposition	OA: N/C	Closed:		Date	

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
		Description of NC		Corrective Action Section B		Verification Section C	Approval Chief Eng	Approval
DATE	STEP	Description of NC Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date			Approval QC Inspector
							:	

Work Order ID 78409 *78409* Page 3 January-09-12 8:58:33 AM D350-636-017 Item ID: Accept *N900040100* Setup Start **Revision ID:** Item Name: Skidtube w/ Training Wearplates, LH **Start Date:** 09/01/2012 Start Qty: 1.00 **Cust Item ID:** Req'd Qty: 1.00 **Required Date: 23/01/2012 Customer:** Reference: Run Start **Approvals:** Process Plan: _____ Date: ____ Tooling: Date: Stop QC: ______ Date: SPC (Y/N): Date: Sequence ID/ **Operation** Set Up/ Tool ID Tool # Plan Accept Reject Reject Insp. Work Center ID Description Code Qty **Qty** Number Stamp **Run Hours** 11-Weld D2744 Cap as per Dwg D2750 and QSI 004. Fill grooves in bend left from bending as per QSI 004 A/R Aluminum Rod batch: 12-Grind welds flush as per Dwg D2750 120 QC10- Inspect visual per QS1004- ground welds *120* QC Memo Quality Control 130 QC5- Inspect part completeness to step on W/O 8 n/05/30 *130*

0.00

Memo

QC

Quality Control

Dan Ae	ospace	: Llu								•
W/O:			V	VORK ORDER CHA	NGES					
DATE	STEP	PRO	PROCEDURE CHANGE				Date	Qty	Approval~ Chief Eng / Prod Mgr	Approval QC Inspector
Part No	:	PAR #:	Fault Ca	tegory:	NCI	R: Yes I	No DQ	A:	_ Date: _	· .
	R	esolution:	Disposit	ion:	QA	N/C Clo	sed:		Date: _	
NCR:		\	WORK OR	DER NON-CONFO	RMANCE	(NCR)			
		Description of NC		Corrective Action	Section B		Verification		Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Descript Chief Eng	ion	Sign & Date		on C	Chief Eng	Approval QC inspector
!		·				ı				

Work Order ID 78409 *78409* January-09-12 8:58:33 AM Item ID: D350-636-017 Accept *N900040100* Setup Start **Revision ID:** Skidtube w/ Training Wearplates, LH Item Name: 09/01/2012 Start Qty: 1.00 **Start Date: Cust Item ID: Required Date:** 23/01/2012 Req'd Qty: 1.00 **Customer:** Reference: Start Run Date: Approvals: Process Plan: **Tooling:** Date: Stop QC: Date: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Accept Reject Reject **Work Center ID** Description Run Hours Code Qty Qty Number 140 Chemical Conversion Coat per OSI005 4.1 0.00 *140* HandFinish 0.00 Memo Hand Finishing

150

150 QC

Quality Control

Q23- Inspect Part Finish

0.00

0.00

Insp.

Stamp

Page 4

—		_			
Da	rt	Aer	osp	ace	Ltd

W/O: 7/	8409	WORK ORDER CH	IANGES				
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval. Chief Eng / Prod Mgr	Approval QC Inspector
12-6-1	150	Should read QC7		12-6-1			

Part No: <u>1350-636-017</u>	PAR #:	Fault Category:	NCR: Yes No DQA:	Date:
Resolution:		Disposition:	QA: N/C Closed:	Date:

NCR:			WORK ORDE	ER NON-CONFORMAN	CE (NCR)			
		Description of NC		Corrective Action Section E	}	Verification	Approval	Approval
DATE STEP		Section A	Initial Action Description Chief Eng Chief Eng		Sign & Date	Sign & Section C		QC Inspector
					284			
	_							
							* 7	
							i	

ge 5

WORK Graer ID January-09-12 8:58:33.A			*784	LU:9*						Pag
Item ID: D350-63 Revision ID: Skidtube	6-017 w/ Training Wearplates, LF	1	Accept	*N900	040	100) * s	Setup Sta	17	IS1* IS2*
Start Date: 09/01/20 Required Date: 23/01/20 Reference:	- •	*1* *1*		Cust Item 1 Customer:	ID:					1. 1/
	Plan:		_		ate:		F	Run Sta Sto	!/	IR1* IR2*
Sequence ID/ Work Center ID 160 *160* Skidtubes Skidtubes	side) as per dwg 2-Open up as per dwg 3- Open flo 4-Chamfer (welding in 5-Deburr ar 6- Prepare t 7-Bond wet A/R Sik 8- Weld spa (welding in: A/R Alum 9- At sectio	D2750. holes of Detail B to 0.750' D2750. nat hole to 0.500" (4 per side holes of Detail B, C, ground structions on sheet 8) and blow out all chips from tube for welding, remove a be D2739 in place as per Q5 affex-291 batch: 10 exp. accers D3490-1, D3490-3 are structions on sheet 8) inum Rod batch: 10 per	inside of tube lodine as required. SI 015 121409 date: 13-4-12 and D2743 as per dwg D275	per dwg D2750	Tool#	(2 · 1		Reject Qty	Reject Number	
- 1 - 1	10-Grind w	elds flush as per Dwg D27	50 B B 12	106/13						

W/O:		WORK ORDER CHANGES							
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval - Chief Eng / Prod Mgr	Approval QC Inspector		
				-			t. two.		
							· -		
	<u> </u>				ļ.	,			
Part No	:	PAR #: Fault Category:	NCR: Yes	No DQ	A:	Date: _			

Resolution:			Dispositio	n:	QA: N/C Clos	sed:	Date:	
NCR:			WORK ORD	ER NON-CONFORMA	NCE (NCR)			
	<u> </u>	Description of NC		Corrective Action Section	n B	Verification	Approval Chief Eng	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C		QC Inspector
'								
							,	
				*				
				•				
							!	
i	1				ŀ	1	l	

Item ID: Revision ID:		17		Accept	*N900	04010) * :	Setup Star Stop	14.7	\1* \2*
Start Date: Required Date Reference:		Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*	. ' 1	Cust Item l Customer:	ID:			IUC	17
Approvals:		n:				ate:	I	Run Star Stop	"INH	?1* ?2*
Sequence ID/ Work Center I 170 *170* QC Quality Control	D.	dwg D2750 12- C'bore se 13- Deburr h ********	oles FOR DELUXE SKIDTUB IBE *********		12-06-13	Tool # Plan Code	Accept	Reject Qty		Insp. Stamp
180 *180* QC Quality Control		QC5- Inspect part comple	teness to step on W/O	0.00	64113				·	

Dart Aerospace Ltd W/O: WORK ORDER CHANGES DATE STEP PROCEDURE CHANGE By Date Qty Approval Chief Eng / Prod Mgr QC Inspector

Part No:		PAR #:	Fault Category:	NCR: Yes No DQA:	Date:
	Resolution:		Disposition:	QA: N/C Closed:	Date:

WORK ORDER NON-CONFORMANCE (NCR)

NCR:		VA	WORK ORDER NON-CONFORMANCE (NCK)									
		Description of NC		Corrective Action Section B		Verification	Approval	Approval				
DATE STEP		Section A	Initial Chief Eng			Section C	Chief Eng	QC Inspector				
							,					
						. *		·				
		<i>,</i> .					·					
	<u> </u>											
								·				
					,							

Work Orde January-09-12		409		*784	<u> </u>							Page 7	
Item ID: Revision ID: Item Name:	D350-636-0 Skidtube w/ T	17 'raining Wearplates, LH		Accept	*N900	040	100) *	Setup	Start Stop	ı V.	S1* S2*	
Start Date: Required Date: Reference:	09/01/2012 23/01/2012	Start Qty: 1.06 Req'd Qty: 1.00	*1* *1*		Cust Item ! Customer:	ID:							
Approvals:	Process Pla	in:	Date:			ate:	- 		Run	Start Stop		R1* R2*	
Sequence ID/ Work Center II 190 *100* HandFinish HandFinishing	D	Operation Description Pressure Wash per QSI00: Memo Re-alodine tu		Set Up/ Run Hours 0.00 0.00 1.4.1.2.1 do not acid etch.	Tool ID	Tool #	Plan Code	Accept Qty	t Rej Qty		Reject Number	Insp. Stamp	
200 *200 *200 *200 Powdercoat Powder Coating	124	White Gloss(Ref:4.3.5.1) Memo START TIME OVEN TEMP FINISH TIME	e:3c	0.00 G 730 0.00 E 10 700				<u>/x</u>	Þ			M7 12/06/	L Ne
210 *210* **		QC3- Inspect Part Finish	0,000	0.00					Ł	_\$	ll	nlo6(20



Inspect for foreign object per QSI 024

Quality Control

W/O:		WORK ORDER CHANGES									
DATE	STEP	TEP PROCEDURE CHANGE				Approval. Chief Eng / Prod Mgr	Approval QC Inspector				
						;					

Part No:	PAR #:	Fault Category:	NCR: Yes No DQA	: Date:
Resolution:		Disposition:	QA: N/C Closed:	Date:

NCR:		WORK ORDER NON-CONFORMANCE (NCR)									
<u>.</u>		Description of NC		Corrective Action Section B		Verification	Approval	Approval			
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng		Section C	Chief Eng	QC Inspector			
		,									
		ķ.,									

5-Coat all exposed fasteners with "LPS Procyon" batch! ((() 4 5 5 6

Page 8

Insp. Stamp

	Pac								•
W/O:			WC	ORK ORDER CHANG	ES	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
DATE	STEP	PRO	OCEDURE CHA	NGE	Ву	Da	te Qty	Approval. Chief Eng / Prod Mgr	Approval QC Inspector
Part No	:	PAR #:	Fault Cate	gory:	NCR: Ye	s No	DQA:	Date:	
Resolution:		esolution:	Dispositio	n:	_ QA: N/C	Closed	:	Date: _	
NCR:		\	WORK ORDI	ER NON-CONFORMA	NCE (NO	CR)			
DATE	STEP	Description of NC		on B	V	erification	Approval	Approval	
DAIL	SILF	Section A	Initial Chief Eng	Action Description Chief Eng	Sig Da	te	Section C	Chief Eng	QC Inspector
		,							
								·	
1	1	1	1 1		1	1			1

11

Work Ord January-09-12		409		*784	109*							Page 9
Item ID: Revision ID:	D350-636-0	17		Accept	*N900	040	100)*	Setup	Start	*N	S1*
Item Name:	Skidtube w/ T	raining Wearplates, LH								Stop	*N	S2*
Start Date:	09/01/2012	Start Qty: 1.00	*1*		Cust Item 1	D:						
Required Date:	: 23/01/2012	Req'd Qty: 1.00	*1*		Customer:							
Reference:	·								_	C4 a m4		
Approvals:	Process Pla	in:	Date:	Tooling: _	D:	ate:		ŀ	Run	Start	*N	R1*
	QC:		Date:	SPC (Y/N):	Da	ate:				Stop	*N	R2*
Sequence ID/ Work Center II	D	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Rej Qty		Reject Number	Insp. Stamp
240		QC5- Inspect part compl	eteness to step on W/O	0.00						2		
* 740 * QC Quality Control		Memo		0.00			Ì	414		SP	12.06	o-∂}_
250		Pick Kit		0.00					//	1	<i>†</i>	
250 Packaging Packaging		Memo		0.00					1/2	16/2	-8 (<u>G</u> = 60
260		QC4-100% Inspect kits	for completeness	0.00	1							
260		Memo .		0.00	e/76							

*****ensure antiseize is on AN8C21A bolts******

Quality Control

W/O:			WORK ORDER	CHANGES				
DATE	STEP	PR	OCEDURE CHANGE	Ву	Date	Qty	Approval . Chief Eng / Prod Mgr	Approval QC Inspector
							,	
Part No	:	PAR #:	Fault Category:	NCR: Ye	es No DQ	A:	Date:	
	Resolu	tion:	Disposition:	QA: N/C	Closed:		Date:	
NOD.			WORK ORDER NON-CON	FORMANCE (N	CR)			

NCR:		WORK ORDER NON-CONFORMANCE (NCR)									
		Description of NC		Corrective Action Section E	Verification	Approval	Approval				
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspecto			
						·					
٠.											
						!					

Work Orde January-09-12		109		*78409*							Page
Item ID: D350-636-017 Revision ID:				Accept	*N900	040	100)* ፡	Setup Sta	rt *N	S1*
Item Name:	Skidtube w/ Tr	aining Wearplates, LH							Sto	^ф *N	S2*
Start Date: Required Date:	09/01/2012 : 23/01/2012	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item I Customer:	D:					
Reference:					·			F	Run Sta	rt *NI	R1*
Approvals:	Process Plan	n:	Date:	Tooling:	Da	ate:	 -		64		RI
	QC:		Date:	SPC (Y/N):	Date:				Sto	*N	R2*
Sequence ID/ Work Center II		Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
270				0.00				1.2			
270 Packaging		Packaging Memo		0.00				JX			
Packaging			ack for shipping as per	PPPD350-636-017				•		1	20/

0.00

0.00

Location:

Memo

280

280

Quality Control

QC21- Final Inspection - Work Order Release

126-Dei 12/6/27 94 Mr-12-06-26

Page 10

Dart Aerospace Ltd

Dart Ae	rospace	e Ltd						• .	· Na
W/O:		1.00	W	ORK ORDER CHANG	ES				* *.
DATE	STEP	PRO	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
						۲,			
							· ;		
Part No	:	PAR #:	Fault Cat	tegory:	NCR: Yes	No DQA	\ :	Date: _	
	R	esolution:	Dispositi	on:	QA: N/C	Closed:		Date: _	
NCR:			WORK ORI	DER NON-CONFORMA	NCE (NC	R)			
	0.750	Description of NC		Corrective Action Section		Verific	ation	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign Dat	& Section C		Chief Eng	QC Inspector

NON.												
		Description of NC		Corrective Action Section B		Verification	Approval	Approval				
DATE	STEP	Section A	Initial Action Description S Chief Eng Chief Eng			Section C	Chief Eng	Approval QC Inspector				
	,	·										
	,							i.				
						:						
	1	İ	1 1									

Picklist Print

January-09-12 8:58:37 AM

Work Order ID: 78409

78409

Parent Item:

D350-636-017

D350-636-017

Parent Item Name: Skidtube w/ Training Wearplates, LH

Start Date: 09/01/2012

Required Date: 23/01/2012

Page 1

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP rev:A 10.09.28 new issue DD verf:EC

Purchased

No

IPP Rev:B

	11.04.14 ecn11-55. per NCR 11-906 D			IPP	Rev:C 11.10.	18 as								
Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per	·Kit	Total Qty	Qty Issued	Date Issued	Status
D3490-1		Manufactured	No			160	Each	62.0000	4		4			
*D3490-1	*								**	_			10 9	BE12/04/
		•		Location	<u>1</u>	Loc	<u>Oty</u>	Loc Code					D C	9267 x
				LG001			62					_		
					62450		2			_		_		
					74875 77042		20 40			_		_		
AN3C34A		Purchased	No			230	Each	55.0000	I		1			
AN3C34	Α								**		H	12/0	6/27	

*Δ	N:	30	??	34	Α	*
BOLT.						

Location	Loc	: Qty	Loc Code			
ST353		55				
116075		35			X(
117514		20				
	230	Each	114.0000	4	4	
			**	k		12/06/22

AN3C36A

AN3C36A

Location		Loc Qty	Loc Code	
FG		4		
I	01261	4		
ST353		110		
1	16590	0		
1	19083	2		
	19324	92		
ī	19530	16		

		7 — 1 —							
W/O:			WO	RK ORDER CHANG	ES				
DATE	STEP	PRO	OCEDURE CHAI	NGE	Ву	Date	Qty	Approval - Chief Eng / Prod Mgr	Approval QC Inspector
······································				, , , , , , , , , , , , , , , , , , ,					
Part No	:	PAR #:	Fault Cated	aory:	NCR: Yes	No DQ	A:	Date:	
				1:					
NCR:		\	WORK ORDE	ER NON-CONFORMA	NCE (NC	R))
	0750	P Description of NC Section A	<u></u>	Corrective Action Section		Verifi	cation	Approval	Approval
DATE	STEP		Initial Chief Eng	Action Description Chief Eng	Sign Dat	& Sect	ion C	Chief Eng	QC Inspector
	,								

D ui. 1 101	- oppas	,							
W/O:			W	ORK ORDER CHANGE	ES				
DATE	STEP	PRO	OCEDURE CH	ANGE	Ву	Date	Qty	Approval. Chief Eng / Prod Mgr	Approval QC Inspector
Part No	•	PAR #:	Fault Cate	egory:	NCR: Ye	s No [DQA:	Date:	
Resolution:			Disposition	on:	QA: N/C	Closed:		Date: _	
NCR:			WORK ORE	DER NON-CONFORMA	NCE (NO	CR)			
DATE	STEP	Description of NC		Corrective Action Section		Ve	rification	Approval Chief Eng	Approval
DATE	SIEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sig Da	n& s	Section C		QC Inspector
							:		
		·							
		1							
					٠				
1	1		1 1		1				

January-09-12 8:58:37 AM

Work Order ID: 78409 *78409* Parent Item: D350-636-017 *D350-636-017* Parent Item Name: Skidtube w/ Training Wearplates, LH **Required Date: 23/01/2012 Start Date:** 09/01/2012 Start Qty: 1.00 Required Qty: 1.00 D3492-1 230 Each 110.0000 Manufactured No ** *D3492-1* Location Loc Qty Loc Code 383259 FP002 110 69531 74444 2 76235 100 D3492-5 32.0000 Manufactured No 230 Each *D3492-5* ** Plug Loc Code Location Loc Qty 1383100 32 FP002 32 77044 387.0000 D3873-1 Manufactured No 230 Each ** Bushing Location Loc Qty Loc Code ST088 387 B76791 64760 68247 4 73829 19 73830 2 361 76792 D4154-041 Manufactured No 230 Each 1.0000 Location Loc Qty Loc Code FP001 71442 1

Dart Ae	rospace	Ltd						•		
W/O:			WC	ORK ORDER CHANGE	S					
DATE	STEP	PROCEDURE CHANGE			Ву	Date Qty	Approval, Chief Eng / Prod Mgr	Approval QC Inspector		
								,		
Part No	:	PAR #:	_ Fault Cate	gory:	NCR: Yes	No DQA:	Date: _			
	R	esolution:	Disposition	n:	QA: N/C Closed: Date:					
NCR:	•	V	ORK ORDI	ER NON-CONFORMAI	NCE (NCR)	· .			
		Description of NC	Corrective Action Se		n B	Verification	Approval	Approval		
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector		

NCR:	AAOUK OUDEU 14014-00141 OUMAIACE (14011)							
		Description of NC		Corrective Action Section B			Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Verification Section C	Chief Eng	QC Inspector
	,							
,								
		•						

January-09-12 8:58:37 AM

78409 Work Order ID: 78409 Parent Item: D350-636-017 *D350-636-017* Skidtube w/ Training Wearplates, LH Parent Item Name: Start Date: 09/01/2012 **Required Date: 23/01/2012** Start Qty: 1.00 Required Oty: 1.00 21.0000 230 D4170-1 Manufactured No Each ** *D4170-1* Bushing Loc Code Location Loc Qty LG001 21 71844 5 76677 16 D4171-1 230 Each 12.0000 Manufactured No ** *D4171-1* Bushing 1382385 Location Loc Oty ST135 12 12 77008 230 Each 1,309.000 MS21043-3 No Purchased ** *MS21043-3* Location Loc Qty Loc Code FG 72 103691 72 ST300 698 119901 698 ST301 539 118077 2 118614 441 118686 30 119758 66

Darino	Copact								•
W/O:			W	ORK ORDER CHANGE	S				
DATE	STEP	PRO	OCEDURE CHA	NGE	Ву	Date	Qty	Approval - Chief Eng / Prod Mgr	Approval QC Inspector
						· · · · · · · · · · · · · · · · · · ·			
							,		
Part No	,	PAR #:							
	R	esolution:	Dispositio	n:	QA: N/C Clo	sed:		Date:	
NCR:			WORK ORD	ER NON-CONFORMAN	ICE (NCR)			
DATE	STEP	Description of NC Section A	Initial Chief Eng	Corrective Action Section Action Description Chief Eng	B Sign & Date		cation ion C	Approval Chief Eng	Approval QC Inspector
					·				
	ļ								

January-09-12 8:58:37 AM

Work Order ID: 78409 *78409* Parent Item: D350-636-017 *D350-636-017* Skidtube w/ Training Wearplates, LH Parent Item Name: Start Date: 09/01/2012 **Required Date: 23/01/2012** Start Qty: 1.00 Required Qty: 1.00 NAS1149C0363R No 230 3,734.000 Purchased Each *NAS1149C0363R* ** 12/06/22 Washer Location Loc Qty Loc Code ST297 3734 3734 114742 230 Each 179.0000 NAS1515H3L Purchased No *NAS1515H3I * ** WASHER Location Loc Qty Loc Code FG 40 M 121556 ٧d 102472 40 ST277 139 118686 119438 36 100 120072 NAS1611-005 Purchased No 230 Each 204.0000 ** *NAS1611-005* O-RING Location Loc Qty Loc Code FP001 204 106099 31 X8 114220 105 119438 68

	· · · · · · · · · · · · · · · · · · ·							•
W/O:			WORK ORDER	CHANGES				
DATE	STEP	PR	OCEDURE CHANGE	Ву	Date	Qty	Approval. Chief Eng / Prod Mgr	Approval QC Inspector
						<u> </u>		
Part No	:	PAR #:	Fault Category:	NCR: Ye	s No DQ	A:	Date:	·
	Resolution: _		Disposition:	QA: N/C	Closed:		Date: _	
NCR:			WORK ORDER NON-COM	FORMANCE (NO	R)	-		
	T		Corrective Actic					Ţ ···

NCR:			WORK ORDER NON-CONFORMANCE (NCR)									
		Description of NC		Corrective Action Section B	Verification	Approval	Approval					
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector				
					:							

Picklist Print January-09-12 8:58:38 AM									Page 6
Work Order ID: 78409		*78	409*						
Parent Item: D350-636-017			50-636-0	11フ*					
	ing Wearplates, LH	1 3.5	.:)(/-(),>()-(<i>)</i> 1 <i>/</i>			tart Date: 0 Start Qty: 1		Required Date: 23/01/2012 Required Qty: 1.00
NAS1611-010	Purchased	No		230	Each	179.0000	8	8	
NAS1611-010							**	Lt	12/06/20
			Location	<u>L</u>	oc Qty	Loc Code			
			FP		100	111215	89		
			110915		0				
			120121		100				
			FP001		79				
			110915		14				
			117460		8				
			118077		1				
			118612		3				
			119438		47				
6 011.40D00002		3.7	119623	250	6	150,000	2		
NAS1149D0863J	Purchased	No		250	Each	159.0000	2	2	
NAS1149D0863	s.J						**	120	Bus (elafefar (?)
			Location	<u>L</u>	oc Qty	Loc Code			188 2
			ST298		159				•
			118078		59				
			119307		100				
D2744	Manufactured	No		110	Each	33.0000	1	1	
D2744							**		HF 12/05/30
1) / / 44 Cap	•								B78900 ×1
Сар			<u>Location</u>	T.	oc Qty	Loc Code			070/00 ×/
				L		Lot Cour			_
			LG002		33				
			62715 70881		1 12				
			71861		20				
			, 1001		20				•

W/O:			WORK ORDER CHANGES										
DATE	STEP	PRO	OCEDURE CHA	NGE	Ву	,	Date	Qty	Approval . Chief Eng / Prod Mgr	Approval QC Inspector			
							·						
	·	1											
<u>.</u>													
					NCR: Yes No DQA: Date:								
		esolution:	Disposition	າ:	_ QA: N/	Clos	sed:		Date:				
NCR:			WORK ORDI	ER NON-CONFORMA	NCE (N	CR)							
DATE	STEP	Description of NC Section A	Initial Chief Eng	Corrective Action Section Description Chief Eng	tion B Sign & Date		Verification Section C		Approval Chief Eng	Approval QC Inspector			
				•									
						·							

January-09-12 8:58:38 AM

Work Order ID: 78409 *78409* Parent Item: D350-636-017 *D350-636-017* Parent Item Name: Skidtube w/ Training Wearplates, LH Start Date: 09/01/2012 **Required Date: 23/01/2012** Start Qty: 1.00 Required Oty: 1.00 D2600-3-BENT Manufactured 110 Each 18.0000 *D2600-3-BENT* ** Extrusion Bent Location Loc Qty Loc Code LG 18 66875 73253 75021 75022 75023 77623 D2743 Manufactured No 160 153.0000 Each *D2743* ** Crossbolt Spacer Location Loc Qty Loc Code LG001 153 67766 4 68251 3 73403 64 74445 82 D2739 160 1.0000 Manufactured No Each ** 350 I Beam Location Loc Qty Loc Code LG 72155

W/O:			W	ORK ORDER CHA	NGES	•						
DATE	STEP	PRO	OCEDURE CHA	NGE		Ву	Date Qty	Approval . Chief Eng / Prod Mgr	Approval QC Inspector			
			······································									
					•							
			•									
									<u> </u>			
Part No	:	PAR #:	Fault Cate	gory:	NCI	NCR: Yes No DQA: Date:						
	R	Resolution: Disposition: WORK ORDER NON-CONFORMA				N/C Clo	sed:	Date: _				
NCR:			WORK ORD	ER NON-CONFOR	RMANCE	(NCR)					
DATE	STEP	Description of NC Corrective Action			Section B		Verification	Approval	Approval			
DAIE	SIEP	Section A	Initial Chief Eng	Action Descripti Chief Eng	ion	Sign & Date	Section C	Chief Eng	QC Inspector			
			·									
					**							
······································												

January-09-12 8:58:38 AM

Work Order ID: 78409 *78409* Parent Item: D350-636-017 *D350-636-017* Parent Item Name: Skidtube w/ Training Wearplates, LH **Required Date: 23/01/2012** Start Date: 09/01/2012 Start Qty: 1.00 Required Qty: 1.00 ALS4-1032-225 Purchased No 230 1,094.000 Each *ALS4-1032-225* ** 12/06/20 Location Loc Qty Loc Code ST281 1094 M121269 108696 199 110768 62 118386 765 118966 68 AN8C35A Purchased No 230 Each 80.0000 *AN8C35A* 12/06/27 ** **BOLT** Location Loc Qty Loc Code FP002 79 115960 117834 22 118286 56 ST346 114442 0 115188 0 115960 D3488-041 Manufactured No 230 Each 14.0000 ** Blade Fitting Assembly, LH Location Loc Qty Loc Code FP002 14 B B S 733 61689 1 69903 4 9 75056

W/O:		WORK ORDER CHANGES									
DATE	STEP	PRO	OCEDURE CH	ANGE	Ву	(Date Qty	Approval . Chief Eng / Prod Mgr	Approval QC Inspector		
					*.						
		*									
Part No	•	PAR #:	Fault Cat	egory:	NCR: Ye	s No	DQA:	Date: _	·····		
	R	Resolution: Disposition:				Close	ed:	Date: _			
NCR:	,		WORK OR	DER NON-CONFORMA	NCE (N	CR)			-		
		Description of NC Corrective Action			on B		Verification	Approval	Approval		
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sig Da		Section C	Chief Eng	QC Inspector		
		,									
											
	,										
,											
			,	·							
									1		

Shop Packet Print

Page 9

Picklist Print

January-09-12 8:58:38 AM

W/O:			M	VORK ORDER CHANG	GES					
DATE	STEP	PRO	CEDURE CH	IANGE		Ву	Date	Qty	Approval, Chief Eng / Prod Mgr	Approval QC Inspector
									1 Tod Ivigi	
		·								
Part No	•	PAR #:	Fault Ca	tegory:	NCF	R: Yes N	lo DQA	:	Date:	
Re		esolution:	Disposit	ion:	QA:	N/C Clo	sed:		Date:	
NCR:		V	VORK OR	DER NON-CONFORM	IANCE	(NCR)				
DATE	CTED	Description of NC	Corrective Action		ction B		Verifica	ation	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng		Sign & Date	Sectio	n C	Chief Eng	QC Inspector
						· · · · · · · · · · · · · · · · · · ·				
							1			

January-09-12 8:58:38 AM

Work Order ID: 78409

78409

Parent Item:

D350-636-017

Parent Item Name: Skidtube w/ Training Wearplates, LH

Start Date: 09/01/2012

Required Date: 23/01/2012

Start Qty: 1.00

Required Qty: 1.00

AN960C10L

NAS1149C0332

Purchased

No

230

230

230

Each

0.0000

*AN960C10I * 🗸

washer

D2745

Manufactured No

11172063

Loc Qty

Each 81.0000

D2745

Location FP001

69529 76142

D350-636-017

81 80

Each

Loc Code 1383260

Loc Code

NAS1149C0832R

Purchased

No

319.0000

**

**

NAS1149C0832R

WASHER

Location Loc Qty ST297 319 114915 319

W/O:			WORK ORDER CHANGES									
DATE	STEP	F	PROCEDURE CHANGE	Ву	Date	Qty	Approval, Chief Eng / Prod Mgr	Approval QC Inspector				
			· .									
Part No	:	PAR #:	Fault Category:	NCR: Ye	s No DQ	 A:	Date:					
			Disposition:									

NCR:		WORK ORDER NON-CONFORMANCE (NCR)									
		Description of NC		Corrective Action Section B		Verification	Approval	Approval			
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector			
								, ,			
								:			
				·				1			
				·							
$/\setminus$											
0100											

entries

Yoved QAWCRWO RevE

January-09-12 8:58:38 AM

Work Order ID: 78409

78409

D350-636-017

Parent Item:

D350-636-017

Skidtube w/ Training Wearplates, LH Parent Item Name:

Start Date: 09/01/2012

Required Date: 23/01/2012

Start Qty: 1.00

Required Qty: 1.00

AN3C6A

Purchased

Purchased

No

No

230

Each

206.0000

AN3C6A BOLT

Location	Loc C		Loc Code		
FP001		1	M 121 68	2	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
111982		1			
ST351		205			
111982		2			
116419		23			
116549		2			
116704		12			
117619		10			
117688		1			
117872		5			
118422		13			
119449		100			
119749		37			
	230	Each	373.0000	4	4

MS21043-6

MS21043-6

Locatio	<u>n</u>	Loc Qty	Loc Code
FG		20	
	103693	20	
ST301		353	
	112314	143	
	117887	10	
	118384	200	

12/06/20

Dart Ae	rospace	e Ltd							•
W/O:			WO	RK ORDER CHANGI	ES				
DATE	STEP	PRO	CEDURE CHAI	NGE	Ву	Date	Qty	Approval , Chief Eng / Prod Mgr	Approval QC Inspector
									· .
Part No	•	PAR #:	Fault Categ	jory:	NCR: Yes	No DQ	A:	_ Date: _	
	R	esolution:	Disposition);	_ QA: N/C Cld	sed:		Date: _	
NCR:	NCR:		WORK ORDE	ANCE (NCR)					
		Description of NC		Corrective Action Section	on B	Verific	cation	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date		ion C	Chief Eng	QC Inspector

NCR: WORK ORDER NON-CONFORMANCE (NCR)								
DATE STED		Description of NC Corre		Corrective Action Section B	tive Action Section B			Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Verification Section C	Approval Chief Eng	QC inspector
		•						

January-09-12 8:58:38 AM

Loc Qty

79

5

24

50

Loc Code

Location

118758

119530

120094

ST343

W/O:		WORK ORDER CHANGES									
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval , Chief Eng / Prod Mgr	Approval QC Inspector				
					:						
		and the second s			i						

Part No:	PAR #:	Fault Category:	NCR: Yes No	DQA:	Date:
Resolution:		Disposition:	QA: N/C Closed	d:	Date:

NCR:		WORK ORDER NON-CONFORMANCE (NCR)									
DATE OFFE		Description of NC Corrective Action Section B				Verification	n Approval	Approval			
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspecto			

January-09-12 8:58:38 AM

Work Order ID: 78409

D350-636-017

Parent Item Name: Skidtube w/ Training Wearplates, LH

78409

D350-636-017

Start Date: 09/01/2012

Required Date: 23/01/2012

Start Qty: 1.00

Required Qty: 1.00

D274.1
D274.1

/*Blade 350 Skidtube

Parent Item:

Manufactured 1

No

250

Each 16.

16.0000

*

798/

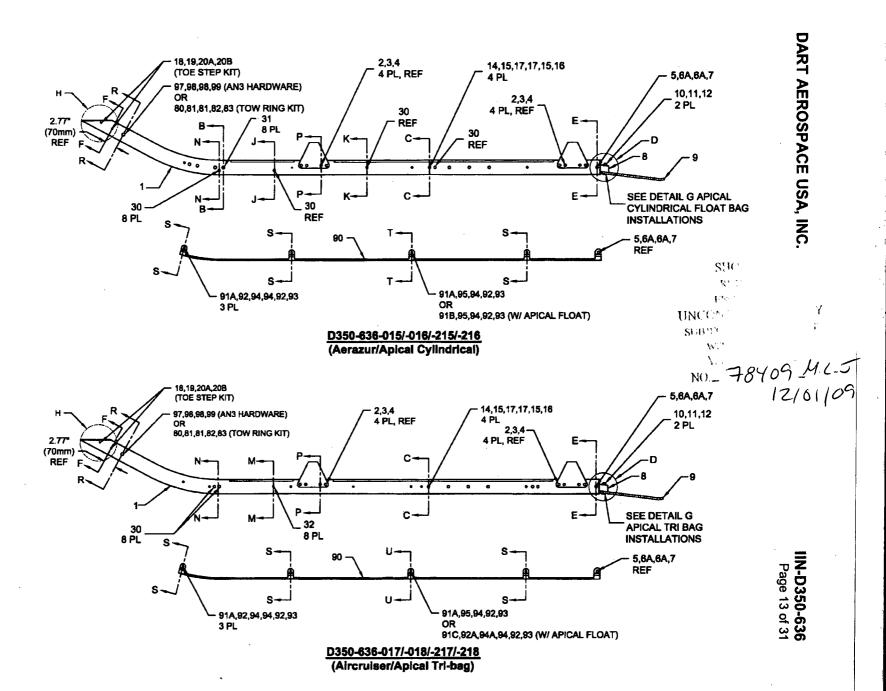
	Johan.			•					٠ .
W/O:			W	ORK ORDER CHANGI	ES				
DATE	STEP	PRO	PROCEDURE CHANGE			Date	Qty	Approval . Chief Eng / Prod Mgr	Approval QC Inspector
						- 1 -			
Part No:		PAR #:	Fault Cat	egory:	NCR: Yes	No DQ	A:	Date:	
Reso		esolution:	Dispositi	on:	QA: N/C C	losed:		Date: _	
NCR:			WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	C Corrective Action Initial Action Descri		on B Sign Date	& Secti	cation on C	Approval Chief Eng	Approval QC Inspector
									,

Revision: Date: 10.10.25

• COPYRIGHT © 2010 BY DART AEROSPACE USA, INC •

THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.

Figure 3: D350-636-015/-016/-017/-018/-215/-216/-217/-218 SKIDTUBE ASSEMBLY



Dail Ac	ospace	LLU							•
W/O:			W	ORK ORDER CHANG	ES		.,.		
DATE	STEP	PRO	OCEDURE CHA	ANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
				7					
Part No	:	PAR #:	Fault Cate	egory:	_ NCR: Yes	No DQ	A:	Date:	
Resolut		esolution:	Dispositio	on:	_ QA: N/C C	losed:		Date: _	
NCR:		,	WORK ORD	ER NON-CONFORMA	ANCE (NCF	R)			
DATE	STEP	Description of NC		Corrective Action Section B		Verific		Approval	Approval
		Section A	Initial Chief Eng	Action Description Chief Eng	Sign a		on C	Chief Eng	QC Inspector
									·
		·					:		

QT)		QTY -043	QTY -044	PART NUMBER	DESCRIPTION
X			1	D4168-041	350 SKIDTUBE ASSEMBLY, LH
 	X	 		D4168-042	350 SKIDTUBE ASSEMBLY, RH
		X	-	D4168-043	350 SKIDTUBE ASSEMBLY, LH
	+	-	X	D4168-044	350 SKIDTUBE ASSEMBLY, RH
	+		 -	D4100-044	OSS STREET OBE ASSEMBLY, TOTAL
1	1 1	1	1	D2739	WEB
8	8	8	8	D2743	SPACER
1	1	1	1	D2744	CAP
8	8	8	8	D2745	BUSHING
1	+ <u> </u>	1	-	D3488-041	BLADE FITTING, LH
÷	1 1	<u> </u>	1	D3488-042	BLADE FITTING, RH
4	4	4	4	D3490-1	SPACER
4	4	 -		D3490-3	SPACER
	+ -	4	4	D3490-5	SPACER
8	8	8	8	D3492-041	PLUG ASSEMBLY
8	8			D3492-043	PLUG ASSEMBLY
	Ť	8	8	D3492-045	PLUG ASSEMBLY
8	8	8	8	D3631-1	WASHER
7	1 7	7	7	D3873-1	BUSHING
1	1	1	1	D4154-041	WEARPLATE ASSEMBLY
+	+	- '	-	D4168-1	SKIDTUBE WELDMENT, LH
	1			D4168-2	SKIDTUBE WELDMENT, RH
		1		D4168-3	SKIDTUBE WELDMENT, LH
			1	D4168-4	SKIDTUBE WELDMENT, RH
4	4	4	4	D4170-1	SPACER
1	1	1	1	D4171-1	BUSHING
'				04171-1	BOSTING
4	4	4	4	ALS4-1032-225	INSERT
4	4	4	4	AN3C6A	BOLT
1	1 1	1	1	AN3C34A	BOLT
4	4	4	4	AN3C36A	BOLT
4	4	4	4	AN6C44A	BOLT
1	1	1	1	AN8C35A	BOLT
9	9	9	9	AN960C10	WASHER (OR NAS1149CO363R)
- 4	4	4	4	AN960C10L	WASHER (OR NAS1149CO332R)
1	1	1		AN960C816L	WASHER (OR NAS1149C0832R)
5	5	5	5	MS21043-3	NUT
4	4	4		MS21043-6	NUT
1	1	1		MS21083C8	NUT
4	4	4		NAS1515H3L	WASHER

GENERAL NOTES:

1)

8

MATERIAL MAKE D4168-1/-2/-3/-4 FROM D2600-3 EXTRUSION (INITIAL LENGTH = 120.0).

FINISH:

CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 PRIOR TO INSTALLING D2739 WEB.
POWDER COAT WHITE (REF. 4.3.5.1) PER DART QSI 005 4.3

BLACK ANTI-SKID PAINT AS INDICATED TO 1.0 ABOVE SKIDTUBE CENTER-LINE PER DART 005 4.4 (OPTIONAL).

TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED

UNITS: INCHES UNLESS OTHERWISE NOTED

BREAK SHARP EDGES: N/A
IDENTIFICATION: N/A

WEIGHT: D4168-041/-042/-043/-044 = 32.3 LBS

WELD PER DART QSI 004

FINAL CONFIGURATION SHOULD HAVE THE FOLLOWING MINIMUM MECHANICAL PROPERTIES:
MINIMUM UTIMATE TENSILE STRENGTH = 35 KSI
MINIMUM UTIMATE TENSILE STRENGTH = 36 KSI

COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF POWDER COATINING WITH MEK DEGREASER.

SPACER AND PLUG INSTALLED SAME AS SECTION AJ-AJ EXCEPT HORIZONTAL

SPACER AND PLUG INSTALLED SAME AS SECTION AP-AP EXCEPT HORIZONTAL

5

7

	NEW IS	SUE			SC	10.08.09			
REV.	HEN		DESCRIPTION		BY	DATE			
DESIG	V	SC	DART A	EROSPACE	AZU	INC.			
DRAW	V -	SC		PORT HADLOCK,					
CHECK	ED	(1)	DRAWING NO. REV.						
MFG. A	PPR.	_ W	D4168		5	SHEET 1 OF 11			
APPRO	VED	WP	TITLE			SCALE			
DE APF	PR.	4-	350 SKIDTUBE ASSEMBLY NTS						
DATE	10.0	08.09	COPYRIGHT © 2010 BY DART AEROSPACE USA, INC. THIS DOCUMENT IS PROVIDE AND CONTRIBUTING, MICH SIGNAPPUED ON THE EXPRESS CONCINION THAT IT IS NOT TO BE USED FOR ANY PLAYORS OR COMPANY CONCINION TO ANY OTHER PURSON WITHOUT WINTERS PREVISION FROM ANY APPROVING AN INC.						

	•				_						
W/O:			W	ORK ORDER CHANG	ES		· · ·		·		
DATE	STEP	PRO	OCEDURE CHA	NGE		Ву	Date	Qty	Approvai . Chief Eng / Prod Mgr	Approval QC Inspector	
			· · · · · · · · · · · · · · · · · · ·								
	:										
;											
Part No	•	PAR #:	Fault Cate	gory:	_ NCR:	Yes I	No DQ	o DQA: Date:			
	R	esolution:	Dispositio	n:	_ QA: I	VC Cld	sed:		Date: _		
NCR:			WORK ORD	ER NON-CONFORMA	ANCE	NCR)				
DATE	CTED	Description of NC		Corrective Action Section			Verific	ation	Approval	Approval	
DATE	STEP	Section A	Initial Chief Eng			Sign & Date			Chief Eng	QC Inspector	
										1	
		•									

D4168-041 350 SKIDTUBE ASSEMBLY, LH

D4168-042 350 SKIDTUBE ASSEMBLY, RH



DESIGN	SC	DART AEROSPACE USA. II	ÑC.				
DRAWN	SÇ	PORT HADLOCK, WA	• • •				
CHECKED	N	DRAWING NO.	REV. A				
MFG. APPR.	MA	D4168 _{SHE}	ET 2 OF 11				
APPROVED	Wi	TITLE	SCALE				
DE APPR.		350 SKIDTUBE ASSEMBLY	NTS				
DATE 10.0	08.09	COPYRIGHT © 2010 BY DART AEROSPACE USA, INC. THE DOCUMENT IS PRIVATE AND CONFEDENCE, AND IS REPUBLION THE CONFESS CONGRIGHT THAT IT IS NOT TO BE USED FOR ANY PLAPAGOL OF COMPLETE OF CONFESS OF THE PERSON WITHOUT ANY PLANTAGE OF THE PERSON WITHOUT ANY PLANTAGE OF THE PERSON WITHOUT ANY PLANTAGE OF THE PERSON WITHOUT ANY PLANTAGE OF THE PERSON WITHOUT ANY PLANTAGE OF THE PERSON WITHOUT ANY PLANTAGE OF THE PERSON WITHOUT THE PERSON WITHOUT ANY PLANTAGE OF THE PERSON WITHOUT THE PERSON WITHOUT ANY PLANTAGE OF THE PERSON WITHOUT THE PERSON WITHOUT ANY PLANTAGE OF THE PERSON WITHOUT THE PERSON WITHOUT ANY PLANTAGE OF THE PERSON WITHOUT THE PERSON WITHOUT ANY PLANTAGE OF THE PERSON WITHOUT ANY PROPERTY OF THE PERSON WITHOUT ANY PLANTAGE OF THE PERSON WITHOUT ANY PROPERTY O					

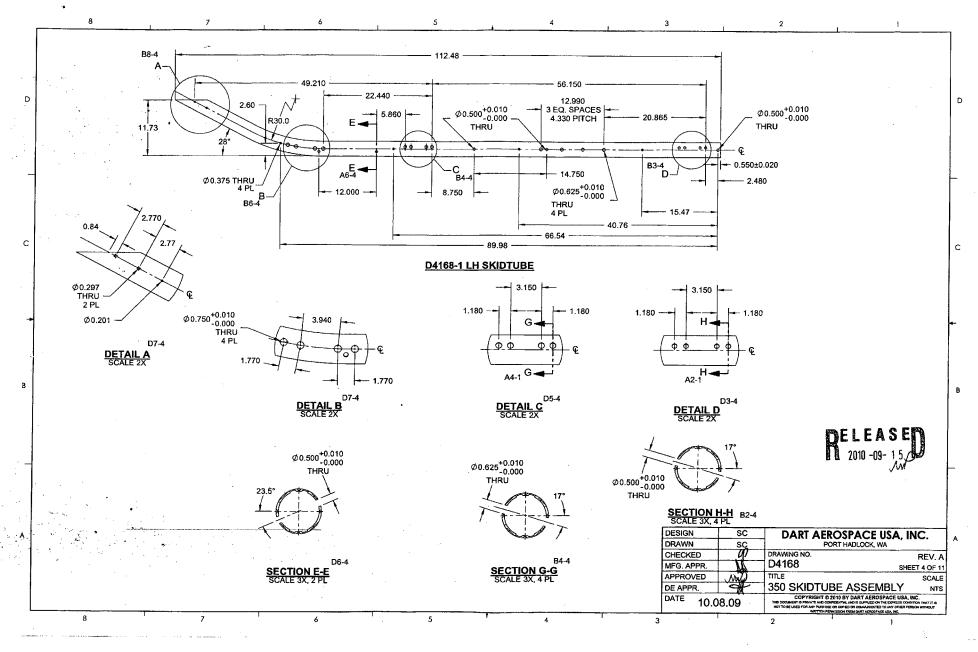
										~
W/O:			W	ORK ORDER CHANG	GES				,	
DATE	STEP	PRO	OCEDURE CHA	NGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No		PAR #:	Fault Cate	egory:	NCR	: Yes I	No DQ	\ \ :	Date:	
Resolution: Disposition:										
NCR:			WORK ORD	ER NON-CONFORM	ANCE	(NCR)			
DATE	STEP	Description of NC			tion B		Verific	ation	Approval	Approval
DATE	SIEP	Section A	Initial Chief Eng			Sign & Date			Chief Eng	QC Inspector
,								•		
•		,								

D4168-043 350 SKIDTUBE ASSEMBLY, LH

D4168-044 350 SKIDTUBE ASSEMBLY, RH

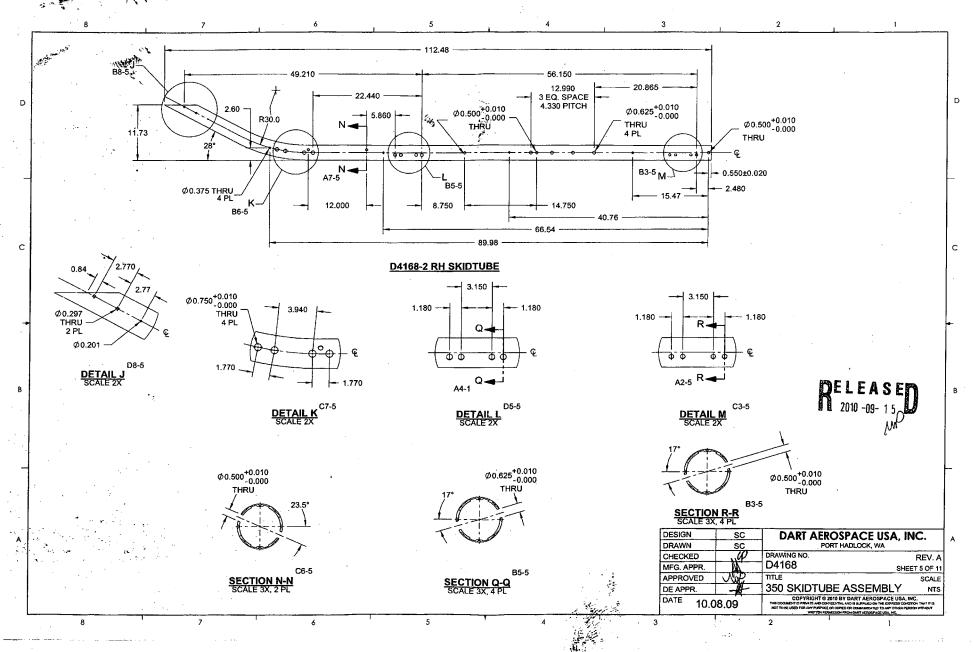
DESIGN	sc	DART AEROSPACE USA, INC.
DRAWN	SC	PORT HADLOCK, WA
CHECKED	P	DRAWING NO. REV. A
MFG. APPR.	1	D4168 SHEET 3 OF 11
APPROVED	W	TITLE SCALE
DE APPR.		350 SKIDTUBE ASSEMBLY NTS
DATE 10.0	08.09	COPYRIGHT © 2010 BY DART AEROSPACE USA, INC. THIS DOCUMENT REMAINS AND ARROPORTH AND AS SPIT-LID ON THE SPRESS DOCUMEN THAT IT IS NOT TO BE USED FOR ANY ACCORDING OR COMMANDED TO ANY CHART PRISON HITHOUT.

	•								•
W/O:			W	ORK ORDER CHANGE	S				
DATE	STEP	PRO	OCEDURE CHA	NGE	Ву	Date	Qty	Approval . Chief Eng / Prod Mgr	Approval QC Inspector
								;	
		-							
								·	
Part No	:	PAR #:	Fault Cate	gory:	NCR: Yes	No DQ	A:	Date:	······································
Resolution:			Dispositio	n:	QA: N/C CI	osed:		Date: _	<u> </u>
NCR:			WORK ORD	ER NON-CONFORMAN	NCE (NCF	1)			
DATE	CTED	Description of NC		Corrective Action Section		Verific		Approval	Approval
DAIL	SILF	Section A	Initial Chief Eng	Action Description Chief Eng	cription Sign & Date		on C	Chief Eng	QC Inspector
DATE STEP									
							· ·		
	į								
*		,							



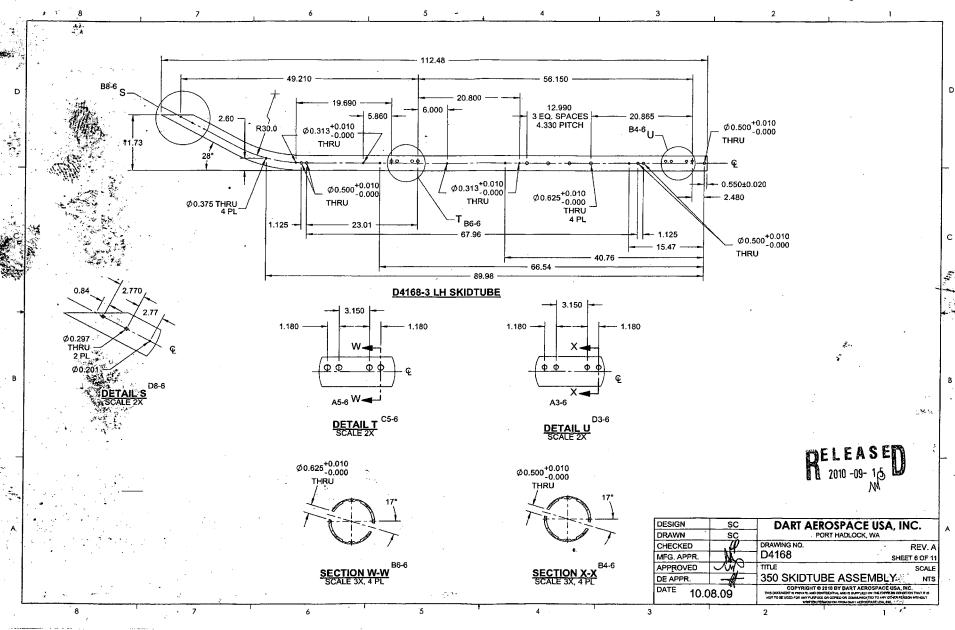
	. Johan	· — · · · · · · · · · · · · · · · · · ·	•							1 .
W/O:			, V	ORK ORDER CHANG	GES					•
DATE	STÉP	PRO	CEDURE CH	IANGE	ę t	Ву	Date	Qty	Approval App	Approval QC Inspector
			-		2 1 1241					
			• . •						٠	
			,							
								-		
Part No	•	PAR #:	Fault Ca	tegory:	NC	R: Yes	No DQ	A:	Date:	
	R	esolution:	Disposit	ion:	QA	: N/C CId	osed:	•	Date: _	
NCR:		V	VORK OR	DER NON-CONFORM	ANCE	(NCR)			
DATE	STEP	Description of NC		Corrective Action Sec	tion B	0:	Verific	ation	Approval	Approval
	U.L.	Section A	Initial Chief Eng	Action Description Chief Eng		Sign & Date	Secti	on C	Chief Eng	QC Inspector
									-	

					•					
				. .		, i				,
·-						,				
		# () () () () () () () () () (
		.3.							•	

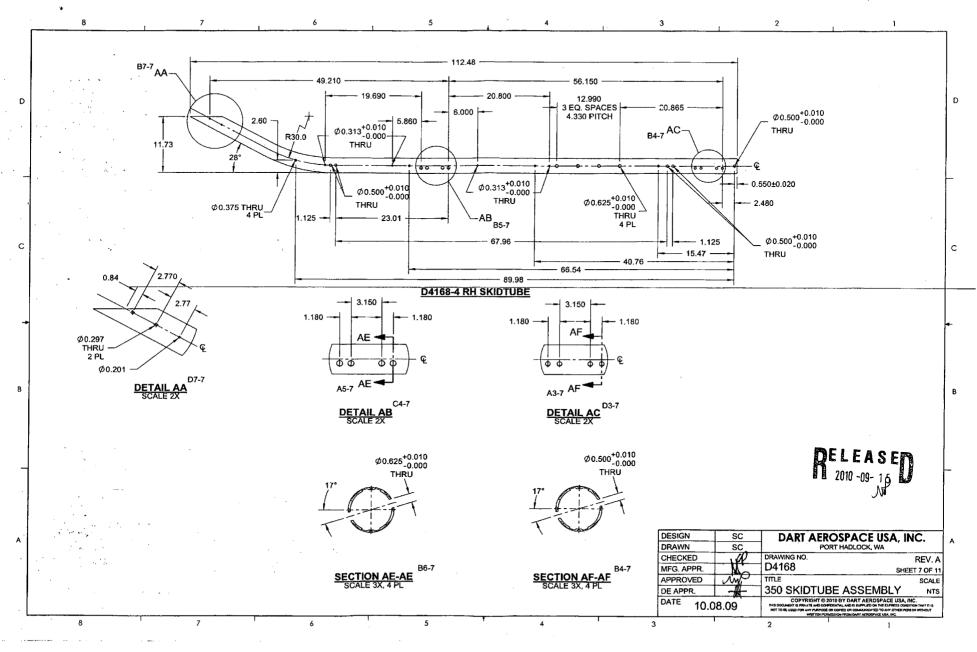


Dái r Wei	uspace	Liu		**				*	•
W/O:	=		V	VORK ORDER CHANG	ES				
DATE	STEP	PI	ROCEDURE CI		Ву	Date	Qty	Approval . Chief Eng / Prod Mgr	Approval QC inspector
				:		,			a separate and a sepa
								n.	
		۵.		·		,	3		·
Part No:	Part No: PAR #: Fault Category: Resolution: Disposition:				_ NCR: Y	es No D O	A:	Date:	
	R	esolution:	Disposit	tion:	_ QA: N/C	Closed:		Date: _	
NCR:			WORK OR	DER NON-CONFORMA	NCE (N	CR)			
DATE	QTFD	Description of NC		Corrective Action Secti			ication	Approval	Approval
	O.L.	Section A	Initial Chief Eng	Action Description Chief Eng		n & Sec	tion C	Chief Eng	*QC Inspector
2		1							
એક	`				, l				
	. •								
			٠				*		
7.		·					~		
,		3.							,
			;			٠			
	1				[1			

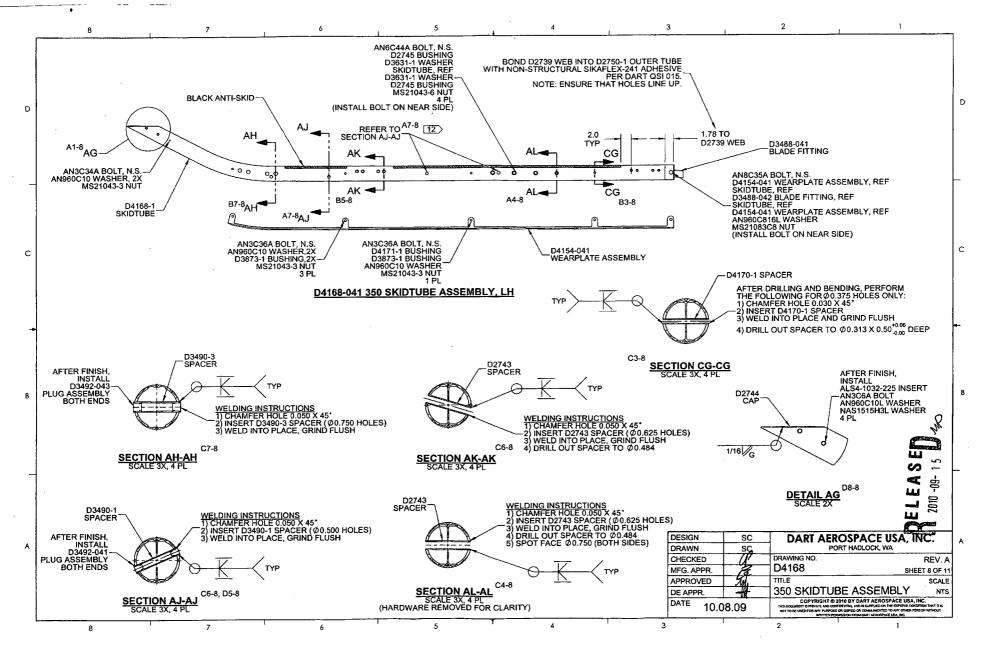
-



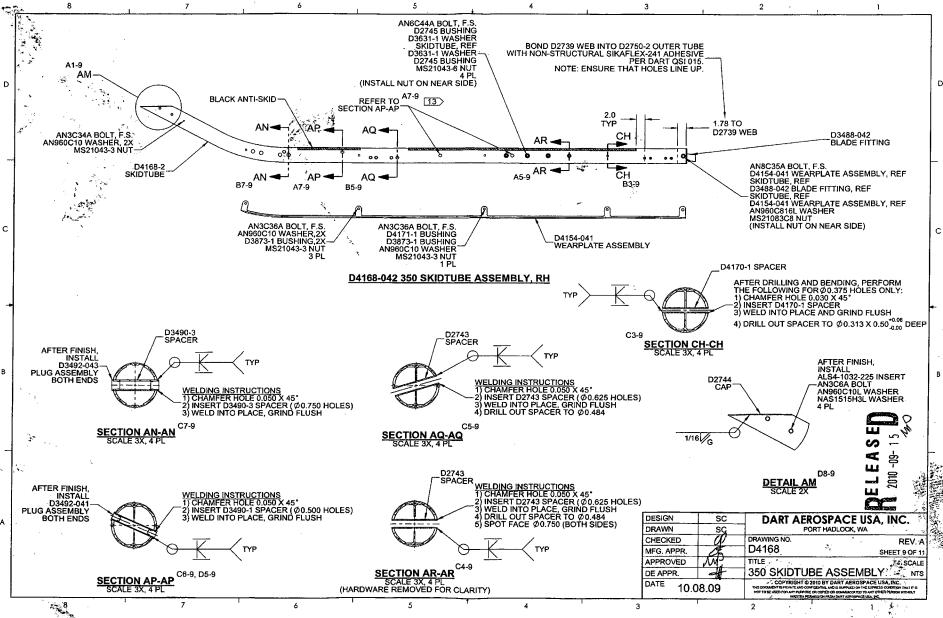
	•									•
W/O:			W	ORK ORDER CHANG	ES					
DATE	STEP	PRO	OCEDURE CH	ANGE	1	Зу	Date	Qty	Approval , Chief Eng / Prod Mgr	Approval QC Inspector
			•				·			
			· · · · · · · · · · · · · · · · · · ·							
Part No	·	PAR #:	Fault Cate	egory:	NCR: Yes No DQA: Date:					
	R	esolution:	Dispositi	on:	_ QA: N	VC Clo	sed:	· · · · · ·	Date:	
NCR:	,		WORK ORE	DER NON-CONFORMA	ANCE (NCR)				
	OTED	STED Description of NC			ion B		Verific	ation	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng		Sign & Date	Section C		Chief Eng	QC Inspector
	:									
					٠		:			
:										



	•									
W/O:			W	ORK ORDER CHANG	ES			,		
DATE	STEP	PRO	OCEDURE CH	ANGE		Ву	Date	Qty	Approval . Chief Eng / Prod Mgr	Approval QC Inspector
	i									
'										
į										
Part No:										
						N/C Clo	sed:		Date:	
NCR: WORK ORDER NON-CONFORMANCE (NCR)										
DATE	STEP	Description of NC	Corrective Action Section				Verific	ation	Approval	Approval
DAIL	SIEF	Section A	Initial Chief Eng	Action Description Chief Eng		Sign & Date	Section	on C	Chief Eng	QC Inspector
·								-		
								·		
					.					
					:					
	1				1		1			

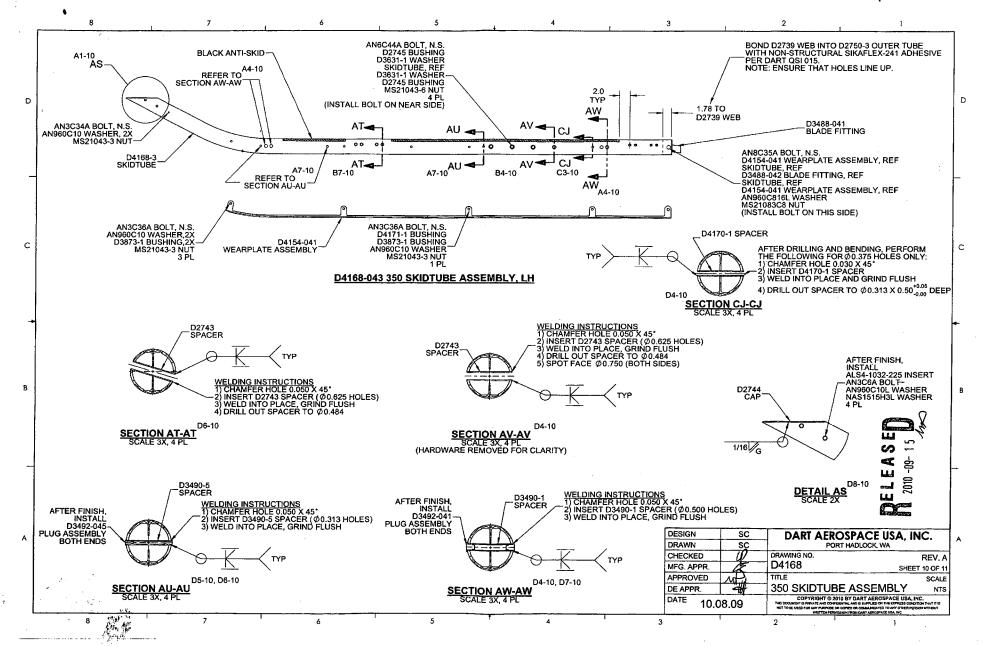


W/O:			WORK OF	RDER CHANGES	· ·	<u></u>		μ	t.
DATE	STEP	PROCE	DURE CHANGE		Ву	Date	Qty	Approval. Chief Eng / Prod Mgr	Approval QC Inspector
	,						ŧ		
		•				***			
Part No:		PAR #:							-,1
Resolution:			Disposition:	QA	N/C C	losed:		Date:	
NCR:		WC	RK ORDER NO	N-CONFORMANCE	(NCF	3)			
DATE	0.750	Description of NC		ve Action Section B		Verifica	ation	Approval	Approval
DATE	STEP	Section A	Initial Act	ion Description Chief Eng	Sign a	Section		Chief Eng	QC Inspector
,	A THE								
	•	•							-:
	1						1		*

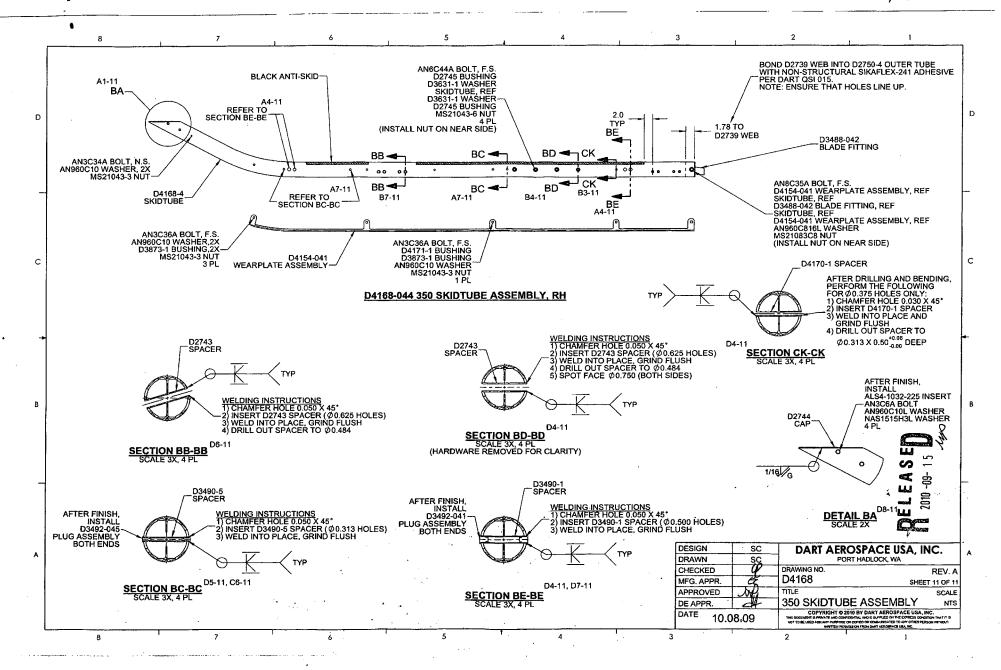


Dart Aerospace Ltd

W/O:			WO	RK ORDER CHAN	GES					
DATE	STEP	PROCEDURE CHANGE				Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
							•			
,									***************************************	
										·
Part No		PAR #:	Fault Categ		NCR:	Yes N	lo DQ /	A :	Date:	
Resolution: Disposition:			QA: N	A: N/C Closed: Date:						
NCR:	,		WORK ORDE	R NON-CONFORM	ANCE (NCR)				
DATE STEP		Description of NC	Corrective Action Section E Initial Action Description			Sign &	Verification Section C		Approval	Approval
· · · · · · · · · · · · · · · · · · ·		Section A	Chief Eng	Chief Eng		Date	Section	on C	Chief Eng	QC Inspector
	,									
		· · · · · · · · · · · · · · · · · · ·								
		1						·	•	***
										-
										<i>.</i>



W/O:	.,	WORK ORDER CHANGES						•	
DATE	STEP	PROC	HANGE	Ву	Date Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
		-							
							,		
Part No:		PAR #:	Fault Ca	itegory: l	NCR: Yes No DQA: Date:				
Resolution:			Disposition: QA: I			sed:	Date: _	Date:	
NCR:		W	ORK OR	DER NON-CONFORMAN	CE (NCR)				
DATE STEP		Description of NC	Corrective Action Section B			Verification	Approval	Approval	
		Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector	
		.							
		•							
	2.5								
	,								
						1 431			
•								:	
. •		,							



- 1 Aug. 1

W/O:~				NOBR OBDED CH	IANGES			<u> </u>	
DATE	STEP	WORK ORDER CHANGES PROCEDURE CHANGE			IANGLS		Date Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
								•	X.
				• 6/3					
							p of shifted		
Part No:		PAR #:		tegory:					· · · · · · · · · · · · · · · · · · ·
NCR:		esolution:		ion: DER NON-CONFO		· · · · · · · · · · · · · · · · · · ·		Date:	
DATE	STEP	Description of NC Section A	/ Initial Chief Eng	Corrective Action Action Descrip	Section B	Sign & Date	Verification Section C	Approval Chief Eng	Approval QC Inspector
		, , , , , , , , , , , , , , , , , , ,					gun		
4	J.								

NO. <u>294</u>

AWS D17.1.2001 QUALIFICATION TEST RECORD

Name: Barday Elliott	
Job number: 83800	
Part number: 4350-636-012	
Description: Skid-Jube	
Welding Process: Tig[Mig[]	·
Base materiel: Alum	
Current: AC[] DC[]	

TEST REQUIREMENTS AND RESULTS

Visual: Penetration:	pass[4] fail[] pass[4] fail[]	
UNACCEPTABLE		
Cracks: Undercut: Pin holes: Overlap (cold lap) Porosity (surface): Coloration:	pass[] fail[] pass[] fail[] pass[] fail[] pass[] fail[] pass[] fail[]	
Qualifier Bull Aural Welder Broker Ellert	Date of Test Coupon	
	Sed in accordance with AWS	